

#16

1642

## RAW SEQUENCE LISTING

DATE: 12/07/2001

PATENT APPLICATION: US/09/529,206B

TIME: 09:55:24

Input Set : A:\20264261.app

Output Set: N:\CRF3\12072001\I529206B.raw

3 <110> APPLICANT: Wang Rong, Fu  
 4 Rosenberg, Steven  
 6 <120> TITLE OF INVENTION: Novel Human Cancer Antigen NY ESO-1/CAG-3 and Gene  
 7 Encoding Same  
 9 <130> FILE REFERENCE: 20264269US1  
 11 <140> CURRENT APPLICATION NUMBER: 09/529,206B  
 12 <141> CURRENT FILING DATE: 2000-06-13  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US98/19609  
 15 <151> PRIOR FILING DATE: 1998-09-21  
 17 <150> PRIOR APPLICATION NUMBER: US60/061,428  
 18 <151> PRIOR FILING DATE: 1997-10-08  
 20 <160> NUMBER OF SEQ ID NOS: 127  
 22 <170> SOFTWARE: PatentIn Ver. 2.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 805  
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 31 ctgagagccg ggcagaggct ccggagccat gcaggccgaa ggccggggca caggggggttc 120  
 32 gacgggcat gctgatggcc caggaggccc tggcattcct gatggcccag ggggcaatgc 180  
 33 tggcgcccca ggagaggcgg gtgccacggg cggcagaggt ccccggggag caggggcagc 240  
 34 aagggcctcg gggccgggag gaggcgcccc gcgggggtccg catggcgggc cggcttcagg 300  
 35 gctgaatgga tgctgcagat gcggggccag ggggcccagg agccgcctgc ttgagttcta 360  
 36 cctcgccatg cctttcgaga caccatgga agcagagctg gcccgaggga gcctggccca 420  
 37 ggatgcccc cgccttcccg tgccaggggg gcttctgaag gaggttactg tgcgcggcaa 480  
 38 catactgact atccgactga ctgctgcaga ccaccgcca ctgcagctct ccatcagctc 540  
 39 ctgtctccag cagctttccc tgttgatgtg gatcacgcag tgcctttctgc ccgtgttttt 600  
 40 ggctcagcct ccctcagggc agaggcgcta agcccagcct ggccggccct cctagggtcat 660  
 41 gcctcctccc ctagggaatg gtcccagcac gaggggccag ttcatgttg gggcctgatt 720  
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 43 cgaaaaaaaa aaaaaaaaaa aaaaaa 805  
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 54 ggcggcagag gtccccgggg cgcaggggca gcaaggccct cggggccggg aggaggcgcc 180  
 55 ccgcgggggt cgcattggcg cgcggcttca gggtgaatg gatgctgcag atgcggggcc 240  
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 58 gtgcttctga aggagttcac tgtgtccggc aacatactga ctatccgact gactgctgca 420  
 59 gaccaccgcc aactgcagct ctccatcagc tcctgtctcc agcagctttc cctgttgatg 480  
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64 &lt;211&gt; LENGTH: 180

65 &lt;212&gt; TYPE: PRT

66 &lt;213&gt; ORGANISM: Homo sapiens

68 &lt;400&gt; SEQUENCE: 3

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70   1           5           10           15
72 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly
73           20           25           30
75 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Pro Gly Pro Arg Gly Ala
76           35           40           45
78 Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
79           50           55           60
81 His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala
82   65           70           75           80
84 Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe
85           85           90           95
87 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp
88           100          105          110
90 Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val
91           115          120          125
93 Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln
94           130          135          140
96 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met
97 145           150           155           160
99 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser
100           165           170           175
102 Gly Gln Arg Arg
103           180

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106 &lt;210&gt; SEQ ID NO: 4

107 &lt;211&gt; LENGTH: 174

108 &lt;212&gt; TYPE: DNA

109 &lt;213&gt; ORGANISM: Homo sapiens

111 &lt;400&gt; SEQUENCE: 4

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112 atgctgatgg cccaggaggc cctggcattc ctgatggccc aggggggcaat gctggcgggc 60
113 caggagaggc gggtgccacg ggcggcagag gtccccgggg cgcaggggca gcaagggcct 120
114 cggggccggg aggaggcgcc ccgcggggtc cgcattggcg cgcggcttca gggc      174

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117 &lt;210&gt; SEQ ID NO: 5

118 &lt;211&gt; LENGTH: 58

119 &lt;212&gt; TYPE: PRT

120 &lt;213&gt; ORGANISM: Homo sapiens

122 &lt;400&gt; SEQUENCE: 5

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123 Met Leu Met Ala Gln Glu Ala Leu Ala Phe Leu Met Ala Gln Gly Ala
124   1           5           10           15
126 Met Leu Ala Ala Gln Glu Arg Arg Val Pro Arg Ala Ala Glu Val Pro
127           20           25           30
129 Gly Ala Gln Gly Gln Gln Gly Pro Arg Gly Arg Glu Glu Ala Pro Arg
130           35           40           45
132 Gly Val Arg Met Ala Ala Arg Leu Gln Gly
133           50           55

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Input Set : A:\20264261.app

Output Set: N:\CRF3\12072001\I529206B.raw

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137 <211> LENGTH: 9
138 <212> TYPE: PRT
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 6
142 Ala Gln Pro Pro Ser Gly Gln Arg Arg
143   1               5
146 <210> SEQ ID NO: 7
147 <211> LENGTH: 9
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 7
152 Thr Pro Met Glu Ala Glu Leu Ala Arg
153   1               5
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157 <211> LENGTH: 9
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 8
162 Pro Met Glu Ala Glu Leu Ala Arg Arg
163   1               5
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 9
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 9
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173   1               5
176 <210> SEQ ID NO: 10
177 <211> LENGTH: 9
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
181 <400> SEQUENCE: 10
182 Gly Pro Arg Gly Ala Gly Ala Ala Arg
183   1               5
186 <210> SEQ ID NO: 11
187 <211> LENGTH: 9
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 11
192 Leu Ala Gln Pro Pro Ser Gly Gln Arg
193   1               5
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 9
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 12
202 Val Ser Gly Asn Ile Leu Thr Ile Arg
203   1               5
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TIME: 09:55:24

Input Set : A:\20264261.app

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209 <213> ORGANISM: Homo sapiens  
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213 1 5  
216 <210> SEQ ID NO: 14  
217 <211> LENGTH: 9  
218 <212> TYPE: PRT  
219 <213> ORGANISM: Homo sapiens  
221 <400> SEQUENCE: 14  
222 Ser Gly Pro Gly Gly Gly Ala Pro Arg  
223 1 5  
226 <210> SEQ ID NO: 15  
227 <211> LENGTH: 10  
228 <212> TYPE: PRT  
229 <213> ORGANISM: Homo sapiens  
231 <400> SEQUENCE: 15  
232 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg  
233 1 5 10  
236 <210> SEQ ID NO: 16  
237 <211> LENGTH: 10  
238 <212> TYPE: PRT  
239 <213> ORGANISM: Homo sapiens  
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243 1 5 10  
246 <210> SEQ ID NO: 17  
247 <211> LENGTH: 10  
248 <212> TYPE: PRT  
249 <213> ORGANISM: Homo sapiens  
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253 1 5 10  
256 <210> SEQ ID NO: 18  
257 <211> LENGTH: 10  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Homo sapiens  
261 <400> SEQUENCE: 18  
262 Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg  
263 1 5 10  
266 <210> SEQ ID NO: 19  
267 <211> LENGTH: 10  
268 <212> TYPE: PRT  
269 <213> ORGANISM: Homo sapiens  
271 <400> SEQUENCE: 19  
272 Thr Pro Met Glu Ala Glu Leu Ala Arg Arg  
273 1 5 10

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PATENT APPLICATION: US/09/529,206B

TIME: 09:55:24

Input Set : A:\20264261.app

Output Set: N:\CRF3\12072001\I529206B.raw

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283   1           5           10
286 <210> SEQ ID NO: 21
287 <211> LENGTH: 10
288 <212> TYPE: PRT
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 21
292 Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg
293   1           5           10
296 <210> SEQ ID NO: 22
297 <211> LENGTH: 10
298 <212> TYPE: PRT
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 22
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303   1           5           10
306 <210> SEQ ID NO: 23
307 <211> LENGTH: 10
308 <212> TYPE: PRT
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 23
312 Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg
313   1           5           10
316 <210> SEQ ID NO: 24
317 <211> LENGTH: 10
318 <212> TYPE: PRT
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 24
322 Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg
323   1           5           10
326 <210> SEQ ID NO: 25
327 <211> LENGTH: 10
328 <212> TYPE: PRT
329 <213> ORGANISM: Homo sapiens
331 <400> SEQUENCE: 25
332 Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
333   1           5           10
336 <210> SEQ ID NO: 26
337 <211> LENGTH: 15
338 <212> TYPE: PRT
339 <213> ORGANISM: Homo sapiens
341 <400> SEQUENCE: 26
342 Ala Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
343   1           5           10           15

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VERIFICATION SUMMARY

DATE: 12/07/2001

PATENT APPLICATION: US/09/529,206B

TIME: 09:55:25

Input Set : A:\20264261.app

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